

What is claimed is:

1. An apparatus for cooling, a liquid in a portable container comprising:
a housing, said housing having a top end and a bottom end, said bottom end adapted to attach to said portable container;
a can of compressed gas within said housing, said can having a release valve to expel said compressed gas; and,
a heat exchanger around an exterior surface of said can, said heat exchanger adapted to absorb heat from a warm liquid.
2. An apparatus according to claim 1 wherein said housing is a hollow cylinder.
3. An apparatus according to claim 1 wherein said top end of said housing has a bevel for pouring and drinking liquid from said container.
4. An apparatus according to claim 1 wherein said bottom end of said housing is threaded.
5. An apparatus according to claim 1 wherein said bottom end of said housing is rubber.
6. An apparatus according to claim 1 wherein said heat exchanger is a plurality of fins.
7. An apparatus according to claim 6 wherein said fins are disc-shaped.
8. An apparatus according to claim 1 wherein said heat exchanger is a porous

mesh of metal.

9. An apparatus according to claim 1 wherein said heat exchanger is made out of aluminum.

10. An apparatus according to claim 1 wherein said heat exchanger is made out of copper.

11. An apparatus according to claim 1 wherein said portable container is a canteen.

12. An apparatus according to claim 1 wherein said portable container is a hydration system.

13. An apparatus according to claim 1 wherein said portable container is an open container.

14. An apparatus for cooling a liquid in a portable container comprising:
a compressor, said compressor residing on a sidewall of said container;
a length of tubing wrapping around said container, said tubing housing a refrigerant, said tubing being connected to said compressor; and
an expansion chamber, said expansion chamber receiving refrigerant from said tubing from said compressor, said expansion chamber having a plurality of heat exchangers to cool said liquid in said container.

15. An apparatus according to claim 14 wherein said compressor is powered by rotation of a crank.

16. An apparatus according to claim 14 wherein said compressor is battery

powered.

17. An apparatus according to claim 14 wherein said compressor is a Sterling engine.

18. An apparatus according to claim 14 wherein said refrigerant is carbon dioxide.

19. An apparatus according to claim 14 wherein said refrigerant is a hydrofluorocarbon.